BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

Name of Work: Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no - 02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Civil Prime Consultants & Engineers

No.23,Shivakrupa CKM Road,Near Akai Public School,RMV 2ND Stage,Sanjar Nagar Bangalore-560094

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

QC ABSTRACT

Nameof Work: Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	202.38 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	388.66 Cum	11	11	Concrete Cube Compressive Strength	-
3	Dry lean concrete	902.58 cum	1	1	Concrete Cube Compressive Strength	-
4	M30	902.58 cum	22	22	Concrete Cube Compressive Strength	-
5	Steel	27.95 Tonne	1	1	-	-
6	Slab (100mm)	1155.77 Sqm	1	1	Concrete Core Compressive Strength	-
7	Slab (230mm)	145.80 Sqm	1	1	Concrete Core Compressive Strength	-
8	GSB	983.40 Cum	1	1	-	-
9	WMM	1852.36Cum	-	-	-	-
		Gradation	10	10	-	-
		AIV	2	2	-	-
		Shape Test	4	4	-	-
		Atterberg Limits	10	10	-	-
10	DBM	443.39 Cum	-	-	-	-
		Quality of Binder	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-
		Specific Gravity	1	1	-	-
		Stability of Mix	1	1	-	-
		Bitumen content	1	1	-	-

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11	BC	354.72 Cum	-	-	-	-
		Quality of Binder	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-
		Specific Gravity	1	1	-	-
		Stability of Mix	2	2	-	-
		Bitumen content	2	2	-	-

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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Job No.: CPCE/BBMP/KV/W.No.02/2021-22 Date: 23.05.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Sri. K Venkataraju,** Contractor, Bangalore.
Name of the Work	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
BIS Code	IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	23.05.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	85.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	297.5	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)$ percent	22.05	22.32	**22.19**

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

Note:

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Job No.: CPCE/BBMP/KV/W.No.02/2021-22 Date : 01.06.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	**Sri. K Venkataraju,** Contractor, Bangalore.
NAME OF THE WORK	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	01.06.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472.5	472
3. Weight of Asphalt and Mineral matter Extracted, g	27.5	28
4. Weight of Mineral Matter, g	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g (corrected)	27.5	28
7. Bitumen content in %	5.50	5.60
8. Average	5.55	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	12.2	12.2	2.6	97.4	90 - 100
9.5	68.9	81.1	17.2	82.8	70 - 88
4.75	92.6	173.7	36.8	63.2	53 - 71
2.36	42.5	216.2	45.8	54.2	42 - 58
1.18	36.8	253	53.5	46.5	34 - 48
0.600	50.9	303.9	64.3	35.7	26 - 38
0.300	46.3	350.2	74.1	25.9	18 - 28
0.150	35.8	386	81.7	18.3	12 - 20
0.075	46.9	432.9	91.6	8.4	4 - 10

SIEVE SIZE	Test 2	Requirement as

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 23.05.2022

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K Venkataraju,** Contractor, Bangalore.
Name of the work	:	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	23.05.2022

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	48	Min 45
2	Softening point, ^{0}C	54	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	272	Min. 220

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mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	per MORTH table 500.17
19	0	0	0	100	100
13.2	14.5	14.5	3.1	96.9	90 - 100
9.5	62.8	77.3	16.4	83.6	70 - 88
4.75	90.9	168.2	35.6	64.4	53 - 71
2.36	46.5	214.7	45.5	54.5	42 - 58
1.18	43.8	258.5	54.8	45.2	34 - 48
0.600	52.4	310.9	65.9	34.1	26 - 38
0.300	49.3	360.2	76.3	23.7	18 - 28
0.150	35.6	395.8	83.9	16.1	12 - 20
0.075	40.8	436.6	92.5	7.5	4 - 10

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 16.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of Work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Date of Testing : 16.03.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	126	12.60	21.50	78.5	75-100
1.18	182	18.20	39.70	60.3	55-90
600 Micron	165	16.50	56.20	43.8	35-59
300 Micron	256	25.60	81.80	18.2	8-30
150 Micron	138	13.80	95.60	4.4	0-10

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 16.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of Work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Date of Testing : 16.03.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1958	39.2	91.7	8.3	0-10

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 16.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of Work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Date of Testing : 16.03.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	195	1.30	1.30	98.70	95-100
20	8263	55.09	56.39	43.61	30-70
10	3256	21.71	78.09	21.91	10-35
4.75	2821	18.81	96.90	3.10	0-5

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 16.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of Work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Date of Testing : 16.03.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	38	3.80	5.20	94.8	70-100
600 Micron	84	8.40	13.60	86.4	40-100
300 Micron	256	25.60	39.20	60.8	5-70
150 Micron	489	48.90	88.10	11.9	0-15

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 17.03.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Name of Work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

AGENCY **Sri. K Venkataraju, Contractor, Bangalore.**

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 17.03.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	566	656	1.16	13
2	TMT	10	0.618	568	656	1.15	15
3	TMT	12	0.889	575	668	1.16	14.5

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 18.04.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. K Venkataraju,** Contractor, Bangalore.
Name of Work	:	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	18.04.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24-1983
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	84.00	0.382	2316.08	1.68	0.965	32.30	16.45	17.77	17.15	21.44
2	50.00	86.00	0.399	2362.90	1.72	0.970	32.80	16.70	18.04	17.50	21.87
3	50.00	88.00	0.412	2384.43	1.76	0.974	33.60	17.11	18.48	18.00	22.50

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 18.04.2022

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Contractor : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of Work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srimdhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 18.04.2022

Techinical Reference : IS.516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	113.00	1.696	2359.24	1.26	0.920	112.80	17.73	19.15	17.61	22.01
2	90.00	115.00	1.735	2371.52	1.28	0.922	115.30	18.12	19.57	18.05	22.56
3	90.00	117.00	1.778	2388.75	1.30	0.924	113.60	17.86	19.29	17.83	22.28

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 29.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	29.03.2022	8.136	336.3	14.95
2	22.03.2022	29.03.2022	8.165	345.2	15.34
3	22.03.2022	29.03.2022	8.146	356.2	15.83

Note:

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For CIVIL PRIME CONSULTANTS & ENGINEERS

Authorised Signatory

No.23, Shivakrupa CKM Road, Near Akai Public School, RMV 2nd Stage,
Sanjay Nagar Bangalore-560094 Email:civilprimeconsultants@gmail.com

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(Project Management Services)
An ISO 9001-2015 Certified Company
Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 19.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	19.04.2022	8.165	505.2	22.45
2	22.03.2022	19.04.2022	8.145	513.6	22.83
3	22.03.2022	19.04.2022	8.152	484.9	21.55

Note:

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 19.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	19.04.2022	8.165	502.2	22.32
2	22.03.2022	19.04.2022	8.146	512.6	22.78
3	22.03.2022	19.04.2022	8.152	485.6	21.58

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 01.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2022	01.04.2022	8.169	335.2	14.80
2	25.03.2022	01.04.2022	8.184	346.5	15.31
3	25.03.2022	01.04.2022	8.146	352.8	15.16

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For CIVIL PRIME CONSULTANTS & ENGINEERS
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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 01.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2022	01.04.2022	8.136	336.3	14.95
2	25.03.2022	01.04.2022	8.165	345.2	15.34
3	25.03.2022	01.04.2022	8.146	356.2	15.83

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 01.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS. 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2022	01.04.2022	8.169	335.2	14.90
2	25.03.2022	01.04.2022	8.184	346.5	15.40
3	25.03.2022	01.04.2022	8.146	352.8	15.68

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 22.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2022	22.04.2022	8.169	500.2	22.23
2	25.03.2022	22.04.2022	8.184	516.2	22.94
3	25.03.2022	22.04.2022	8.154	484.9	21.55

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 07.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	07.04.2022	8.168	339.3	15.08
2	31.03.2022	07.04.2022	8.174	345.5	15.36
3	31.03.2022	07.04.2022	8.156	352.6	15.67

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 07.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	07.04.2022	8.168	336.3	14.95
2	31.03.2022	07.04.2022	8.154	345.2	15.34
3	31.03.2022	07.04.2022	8.146	352.8	15.68

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 11.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	11.04.2022	8.188	345.2	15.34
2	04.04.2022	11.04.2022	8.165	339.3	15.08
3	04.04.2022	11.04.2022	8.146	326.2	14.50

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Drain Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2022	02.05.2022	8.168	502.2	22.32
2	04.04.2022	02.05.2022	8.184	511.3	22.72
3	04.04.2022	02.05.2022	8.146	488.9	21.73

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For CIVIL PRIME CONSULTANTS & ENGINEERS
Authorised Signatory

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 16.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete For Culvert Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{50}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.04.2022	16.04.2022	8.168	336.3	14.87
2	09.04.2022	16.04.2022	8.154	345.2	15.34
3	09.04.2022	16.04.2022	8.146	352.8	15.16

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For CIVIL PRIME CONSULTANTS & ENGINEERS

Authorised Signatory

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 18.04.2022

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**: Sri. K Venkataraju,** Contractor, Bangalore.
Name of the work	: Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2022	18.04.2022	8.135	265.3	11.79
2	11.04.2022	18.04.2022	8.128	284.5	12.64
3	11.04.2022	18.04.2022	8.149	276.3	12.28

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 09.05.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2022	09.05.2022	8.168	375.3	16.68
2	11.04.2022	09.05.2022	8.184	369.3	16.41
3	11.04.2022	09.05.2022	8.146	383.6	17.05

Note:

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AEE-02

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For CIVIL PRIME CONSULTANTS & ENGINEERS

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 18.04.2022

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	: **Sri. K Venkataraju,** Contractor, Bangalore.
Name of the work	: Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2022	18.04.2022	8.147	266.5	11.84
2	11.04.2022	18.04.2022	8.128	271.0	12.04
3	11.04.2022	18.04.2022	8.149	276.1	12.27

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A.E.E

For CIVIL PRIME CONSULTANTS & ENGINEERS

Authorised Signatory

No.23, Shivakrupa CKM Road, Near Akai Public School, RMV 2nd Stage, Sanjay Nagar Bangalore-560094 Email:civilprimeconsultants@gmail.com

CIVIL PRIME CONSULTANTS & ENGINEERS
(Project Management Services)
An ISO 9001-2015 Certified Company
Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No 02/2021-22 Date: 20.04.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.04.2022	20.04.2022	8.135	266.7	11.85
2	13.04.2022	20.04.2022	8.128	283.1	12.58
3	13.04.2022	20.04.2022	8.149	274.3	12.19

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No 02/2021-22 Date: 11.05.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.04.2022	11.05.2022	8.168	375.3	16.68
2	13.04.2022	11.05.2022	8.184	369.3	16.41
3	13.04.2022	11.05.2022	8.146	383.6	17.05

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Job No.: CACE/BBMP/KV/W.No 02/2021-22 Date: 11.05.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.04.2022	11.05.2022	8.168	376.1	16.72
2	13.04.2022	11.05.2022	8.184	368.3	16.37
3	13.04.2022	11.05.2022	8.146	384.5	17.09

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CPCE/BBMP/KV/W.No.02/2021-22 Date: 23.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	23.05.2022	8.165	708.2	31.48
2	25.04.2022	23.05.2022	8.188	716.3	31.84
3	25.04.2022	23.05.2022	8.192	735.6	32.69

Note:
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Job No.: CPCE/BBMP/KV/W.No.02/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	02.05.2022	8.165	502.2	22.32
2	25.04.2022	02.05.2022	8.132	489.6	21.76
3	25.04.2022	02.05.2022	8.144	516.3	22.95

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	02.05.2022	8.165	526.3	23.39
2	25.04.2022	02.05.2022	8.128	508.2	22.59
3	25.04.2022	02.05.2022	8.149	516.4	22.95

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 03.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2022	03.05.2022	8.189	525.3	23.35
2	26.04.2022	03.05.2022	8.164	516.3	22.95
3	26.04.2022	03.05.2022	8.152	489.6	21.76

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 24.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2022	24.05.2022	8.165	708.2	31.48
2	26.04.2022	24.05.2022	8.188	716.3	31.84
3	26.04.2022	24.05.2022	8.192	735.6	32.69

Note:
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For CIVIL PRIME CONSULTANTS & ENGINEERS

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 24.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2022	24.05.2022	8.198	698.6	31.05
2	26.04.2022	24.05.2022	8.165	708.2	31.48
3	26.04.2022	24.05.2022	8.145	716.2	31.83

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 05.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2022	05.05.2022	8.165	505.2	22.45
2	28.04.2022	05.05.2022	8.152	516.3	22.95
3	28.04.2022	05.05.2022	8.172	489.6	21.76

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 05.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**: Sri. K Venkataraju, Contractor, Bangalore.**
Name of the work	: Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2022	05.05.2022	8.165	502.2	22.32
2	28.04.2022	05.05.2022	8.132	489.6	21.76
3	28.04.2022	05.05.2022	8.144	516.3	22.95

Note:
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CIVIL PRIME CONSULTANTS & ENGINEERS
(Project Management Services)
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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 26.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2022	26.05.2022	8.198	698.6	32.06
2	28.04.2022	26.05.2022	8.165	708.2	32.17
3	28.04.2022	26.05.2022	8.145	716.2	31.83

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Ph No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 26.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. K Venkataraju, Contractor, Bangalore.**

Name of the work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2022	26.05.2022	8.184	699.6	32.01
2	28.04.2022	26.05.2022	8.169	715.2	32.17
3	28.04.2022	26.05.2022	8.205	708.1	31.47

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For CIVIL PRIME CONSULTANTS & ENGINEERS

Authorised Signatory

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Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No: CACE/BBMP/KV/W.No.02/2021-22 Date : 04.05.2022

GRADATION FOR GSB (Grading V)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K Venkataraju,** Contractor, Bangalore.

Name of work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 02.05.2022 to 04.05.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	751	751	5.78	94.22	80-100
26.5	2254	3005	23.12	76.88	55-90
9.5	2085	5090	39.15	60.85	35-65
4.75	1892	6982	53.71	46.29	25-50
2.36	3587	10569	81.30	18.70	10-20
0.85	1751	12320	94.77	5.23	2-10
0.425	221	12541	96.47	3.53	0-5

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An ISO 9001-2015 Certified Company
Ph.No: 9535393237 / GST IN:29ALSPU0596Q1ZO

Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 07.05.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. K Venkataraju,** Contractor, Bangalore.
Name of Work :Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985
Date of Testing : 05.05.2022 to 07.05.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 11.05.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. K Venkataraju,** Contractor, Bangalore.
Name of Work :Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985
Date of Testing : 09.05.2022 to 11.05.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 11.05.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. K Venkataraju,** Contractor, Bangalore.
Name of Work :Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985
Date of Testing : 09.05.2022 to 11.05.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 11.05.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. K Venkataraju,** Contractor, Bangalore.
Name of Work :Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985
Date of Testing : 09.05.2022 to 11.05.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 07.05.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. K Venkataraju,** Contractor, Bangalore.
Name of Work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 07.05.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	184	184	1.8	98.2	95-100
22.4	2426	2610	26.1	73.9	60-80
11.2	2180	4790	47.9	52.1	40-60
4.75	1856	6646	66.5	33.5	25-40
2.36	1168	7814	78.1	21.9	15-30
0.600	525	8339	83.4	16.6	8-22
0.075	1298	9637	96.4	3.6	0-5

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date : 09.05.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. K Venkataraju,** Contractor, Bangalore.
Name of Work : Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 09.05.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

IS Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	189	189	1.9	98.1	95-100
22.4	2426	2615	26.2	73.9	60-80
11.2	2158	4773	47.7	52.3	40-60
4.75	1830	6603	66.0	34.0	25-40
2.36	1185	7788	77.9	22.1	15-30
0.600	525	8313	83.1	16.9	8-22
0.075	1346	9659	96.6	3.4	0-5

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Job No.: CACE/BBMP/KV/W.No.02/2021-22

Date: 25.05.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K Venkataraju,** Contractor, Bangalore.
Name of the Work	:	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	25.05.2022

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.25	10.12	9 Kn (min)
2	Marshal flow, mm	3.68	4.51	2 – 4
3	Percent air voids in Mineral Aggregate	13.79	14.35	13 – 15
4	Voids in Compacted Mix	3.84	4.26	3 – 6
5	Percent Voids filled with Bitumen	68.91	69.57	65 - 75
6	Density, g/cc	2.25	2.27	--

Note:

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Job No.: CPCE/BBMP/KV/W.No.02/2021-22 Date : 01.06.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	**Sri. K Venkataraju,** Contractor, Bangalore.
NAME OF THE WORK	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	01.06.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1 Weight of Mixture before Test, g	500	500
2 Weight of Mixture after Test, g	472	473
3 Weight of Asphalt and Mineral matter Extracted, g	28	27
4 Weight of Mineral Matter, g	-	-
5 Weight of Ash, g	-	-
6 Weight of Bitumen Extracted, g (corrected)	28	27
7 Bitumen content in %	5.60	5.40
8 Average	5.50	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	13.8	13.8	2.9	97.1	90 - 100
9.5	65.8	79.6	16.9	83.1	70 - 88
4.75	90.3	169.9	36.0	64.0	53 - 71
2.36	46.2	216.1	45.8	54.2	42 - 58
1.18	35.8	251.9	53.4	46.6	34 - 48
0.600	55.3	307.2	65.1	34.9	26 - 38
0.300	42.8	350	74.2	25.8	18 - 28
0.150	34.9	384.9	81.5	18.5	12 - 20
0.075	42.8	427.7	90.6	9.4	4 - 10

For CIVIL PRIME CONSULTANTS & ENGINEERS

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SIEVE SIZE mm	Test 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	14.9	14.9	3.2	96.8	90 - 100
9.5	66.2	81.1	17.1	82.9	70 - 88
4.75	92.8	173.9	36.8	63.2	53 - 71
2.36	45.3	219.2	46.3	53.7	42 - 58
1.18	48.2	267.4	56.5	43.5	34 - 48
0.600	56.3	323.7	68.4	31.6	26 - 38
0.300	45.8	369.5	78.1	21.9	18 - 28
0.150	37.9	407.4	86.1	13.9	12 - 20
0.075	32.6	440	93.0	7.0	4 - 10

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Job No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 16.03.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. K Venkataraju,** Contractor, Bangalore.
NAME OF THE WORK	:	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		January - 2022
DATE OF TESTING		14.03.2022 to 16.03.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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Job No.: CACE/BBMP/KV/W.No.02/2021-22

Date : 20.04.2022

Specific Gravity And Water Absorption Test

Client	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Sri. K Venkataraju,** Contractor, Bangalore.
Name of the Work	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	23.05.2022 to 25.05.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2020	2022	2024	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_3$ g	1265	1267	1269	
4	Weight of saturated surface dry aggregate in air	W_5 g	2016	2018	2020	
5	Weight of water equal to the volume of the aggregate	$(W_5 - W_3)$ g	751	751	751	
6	Weight of oven dried aggregate	W_4 g	2010	2011	2012	
7	Specific Gravity	$W_4/(W_5-W_3)$	2.676	2.678	2.679	2.678
8	Apparent Specific gravity	$W_4/(W_4-W_3)$	2.698	2.703	2.708	2.703
9	Water Absorption	$((W_5-W_4)*100)/W_4$	0.30%	0.35%	0.40%	0.35%

Comments:

⇒ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%(MORTH table 500.16)

For CIVIL PRIME CONSULTANTS & ENGINEERS

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Job No: CACE/BBMP/KV/W.No.02/2021-22

Date: 01.06.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K Venkataraju,** Contractor, Bangalore.
Name of the Work	:	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	01.06.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.44	10.82	9 Kn (min)
2	Marshal flow, mm	2.69	7.51	2 – 4
3	Percent air voids in Mineral Aggregate	13.45	14.52	13 – 15
4	Voids in Compacted Mix	3.84	4.15	3 – 6
5	Percent Voids filled with Bitumen	69.29	70.12	65 - 75
6	Density, g/cc	2.25	2.26	--

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Job No.: CACE/BBMP/KV/W.No.02/2021-22

Date: 01.06.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K Venkataraju,** Contractor, Bangalore.
Name of the Work	:	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	01.06.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.25	9.58	9 Kn (min)
2	Marshal flow, mm	3.67	2.45	2 – 4
3	Percent air voids in Mineral Aggregate	13.46	14.52	13 – 15
4	Voids in Compacted Mix	3.78	4.61	3 – 6
5	Percent Voids filled with Bitumen	70.12	71.15	65 - 75
6	Density, g/cc	2.25	2.26	--

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Lab No.: CACE/BBMP/KV/W.No.02/2021-22 Date: 20.05.2022

Specific Gravity And Water Absorption Test

Client	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	Sri. K Venkataraju, Contractor, Bangalore.
Name of the Work	Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02),BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	18.05.2022 to 20.05.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2020	2022	2023	
2	Weight of basket suspended in water	W_2 g	756	756	756	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_3$ g	1264	1266	1267	
4	Weight of saturated surface dry aggregate in air	W_3 g	2017	2016	2015	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_4)$ g	753	750	748	
6	Weight of oven dried aggregate	W_4 g	2007	2007	2005	
7	Specific Gravity	$W_4/(W_3-W_5)$	2.665	2.676	2.680	2.674
8	Apparent Specific gravity	$W_4/(W_4-W_5)$	2.701	2.709	2.717	2.709
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.50%	0.45%	0.50%	0.48%

Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%(As per MORTH table 500.8)

For CIVIL PRIME CONSULTANTS & ENGINEERS

Note:

1. This test report should not be reproduced except in full, without written approval of the laboratory
2. The results indicated above are based on the tests carried out on the samples received in the laboratory
3. Any Query regarding the report must be reported within 30 days from the date of testing

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